I CLAIM:

1. A method of making cellular cores suitable to use of wood comprises the steps of:

1) providing a plurality of ribbed plies, said ribs having free edges, each ribbed ply comprising a ply and a plurality of ribs, said ribs having free edges;

2) creating a stack of said ribbed plies by adhesively attaching said ribbed plies together with said ply of each of said ribbed ply against said free edges of said ribs on an adjacent ribbed ply; and

3) creating said cellular cores by cutting slices off said stack of ribbed plies, cutting perpendicular to said ribs.

2. The method of claim 1, limited to making hollow cell cellular cores, comprising the steps of:

1) creating a plurality of hollow ribbed plies, the ribs of each hollow ribbed ply having free edges, using the following steps:

a) providing a plurality of plies;

b) providing a first plurality of ribs;

c) providing a fixture for holding a second plurality of said ribs, selected from said first plurality, parallel to each other with one set of edges of said second plurality of ribs in a flat plane and exposed above said fixture;

d) installing, for each of said plurality of hollow ribbed plies, said second plurality of ribs in said fixture;

e) using adhesive attachment, attaching one of said plurality of plies to said exposed edges of said second plurality of plies;

f) allowing said adhesive attachment to cure; and

g) removing each of said hollow ribbed plies from said fixture;

2) creating a stack of said hollow ribbed plies by adhesively attaching said plurality of hollow ribbed plies together with said ply of each of said hollow ribbed plies against said free edges of an adjacent one of said hollow ribbed plies; and

3) creating a plurality of said hollow cell cellular cores by cutting slices of said stack of hollow ribbed plies, cutting perpendicular to said ribs.

3. The method of claim 1, limited to making filled cell cellular cores, comprising the steps of:

1) providing a plurality of filled rib slices, using the steps of:

a) providing a plurality of plies;

b) providing a plurality of filler layers;

c) making a stack of, alternately, said plies and said filler layers, adhesively attached to each other; and

d) making said plurality of said filled ribbed slices by slicing them from said stack of step C, slicing perpendicular to said ribs.

2) providing a plurality of plies;

3) making a stack of said plurality of plies and said filled rib slices, stacked alternately with all ribs parallel and adhesively attached to each other; and

4) slicing said filled cell cellular cores from said stack of step 3), cutting perpendicular to said ribs.